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January 28, 1998

EX PARTE OR LATE FILED

FEDERAL COMMUNICATIONS COMMISSION

OFFICE OF THE SECRETARY

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HAND DELIVERED

Magalie Roman Salas, Secretary Federal Communications Commission 1919 M Street, NW Room 200 Washington, DC 20554

> **EX PARTE PRESENTATION** RE: PR DOCKET NO. 92-235

Dear Ms. Salas:

On January 27, 1998, Steven E. Fulford, David George and Ralph Haller, met with Ari Fitzgerald, Legal Advisor to the Chairman, to discuss ComSpace Corporation's ("ComSpace") development of DC/MA Technology. As part of that discussion, ComSpace recommended that the FCC adopt rules in the above-referenced rule making proceeding to provide for channel exclusivity, mandatory dates for migration, and economic incentives to implement more efficient technologies. A written presentation was distributed and reviewed during the meeting. A copy of that presentation in attached hereto.

In accordance with Section 1.1206(b) of the Commission's Rules, two copies of this letter are hereby filed with the Secretary's office and a copy of this filing is being sent today to the FCC personnel present during the meeting.

Kindly refer any questions or correspondence regarding this matter to the undersigned.

COMSPACE CORPORATION

eth R. Sachs

ttorney

List ABCDE

Enclosure

Ari Fitzgerald cc:



DC/MATM TECHNOLOGY

(DYNAMIC CHANNEL MULTICARRIER ARCHITECTURE)

INCREASING SPECTRAL EFFICIENCY

January 26/27, 1998 Washington, D.C.





- ♦ Steven E. Fulford, President & CEO
- ◆ David L. George, Executive Vice President & CTO
- ♦ Ralph A. Haller, Special Consultant

The Company was founded by Steven E. Fulford and David L. George in 1993 on their belief that the two-way radio industry needed a new technology that could increase capacity economically for all operations regardless of frequency band.

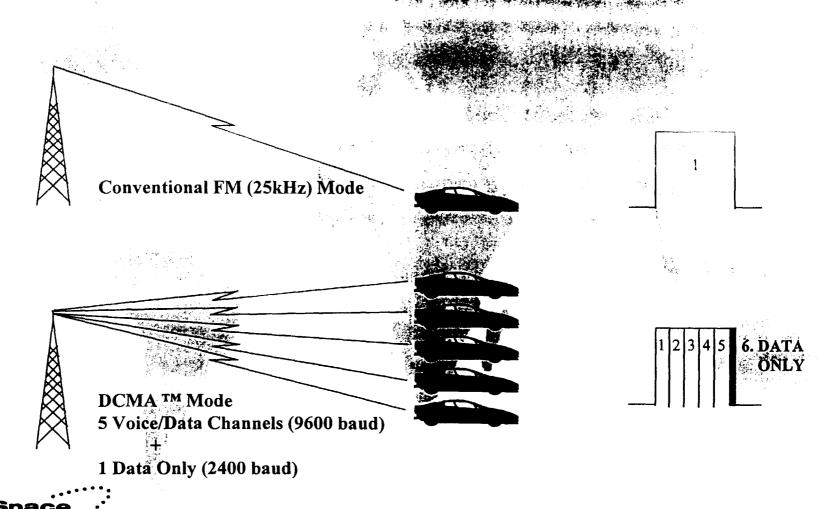


COMSPACETMPREMISE

TO DEVELOP TECHNOLOGY AND PRODUCTS THAT INCREASE THE CAPACITY OF AND ADD FEATURES TO WIRELESS COMMUNICATIONS SYSTEMS.



DCMATM TECHNOLOGY



WHO NEEDS THIS TECHNOLOGY? (partial list)

CMRS Providers

Public Safety

Garbage Trucks

Medical Services Laboratories

Excavating Contractors

Electrical contractors

Heating & A/C Companies

Plumbers

Landscapers

Concrete - Ready-Mix

Concrete Finishers

Couriers

Short Haul Trucking

Alarm Companie

Security Services

Maintenance Departments

Security Departments

Food Deliveries

Remodeling

Roofers

School Buses

Wfeckers

Road Construction

Hotel Shuttles

Taxi Service

Limo Sservice



HOW ECONOMIC IS BC/MATM?

BATTERS TEXAS EXAMPLE TO EXPAND A CONTRACTOR SESTION OF THE CHANNELS

IV. III. A. IV. A. IV.

COST OF ACQUIRING 4 NEW CHANNELS
TOTAL

3,200,000³

PPF SAVINGS: \$1,293,369 \$1,000 = \$1,193,360

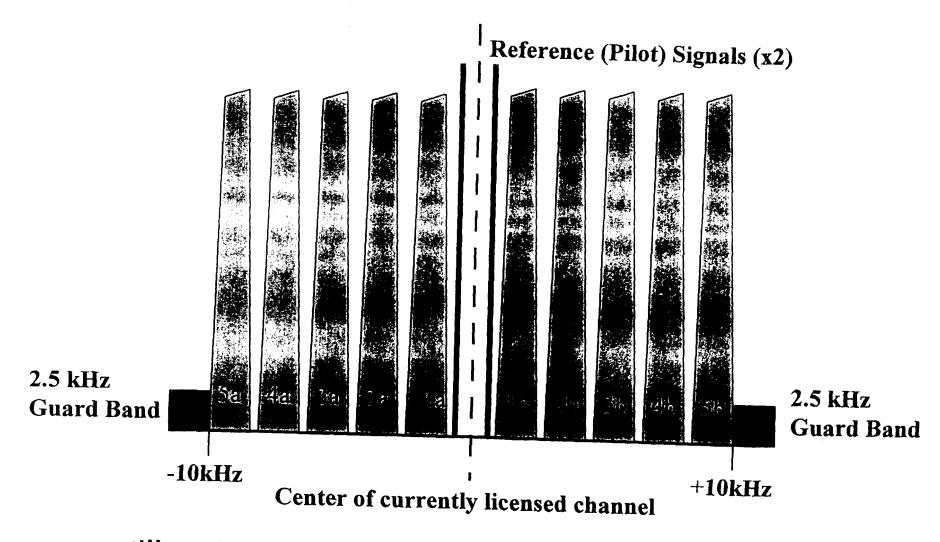
Uniden Quote 10.

³Based on a five channel SMR system in Dallas, TX having an estimated market value of \$1,500,000



²Target Price

WHAT IS DC/MA?



ComSpace ...

FIVE DCMATM CHANNELS IN A SINGLE 25kHz CHANNEL!

WHY WILL LICENSES BUY DOMAM?

- **◆ 5X CAPACITY IMPROVEMENT**
- ♦ SIMPLE UPGRADE PATH EASY TO RETROFIT
- ◆ USES SAME SITE AND ANTENNA SYSTEM
- **♦ LOW COST**
- NEW FEATURES



HOW DOES THE PUBLIC BENEFIT FROM DC/MATM?

- ◆ IMPLEMENTED ON EXISTING ALLOCATED CHANNELS DECREASES DEMAND FOR NEW SPECTRUM. 1 EXISTING CHANNEL = 5 NEW CHANNELS!
- ♦ INCREASED COMMUNICATION PROVIDER CHOICES
- **♦ MORE CAPACITY -- MORE SERVICES**
- ◆ LOWER COST BASED ON COMPETITIVE "MARKET FORCES"



REGULATORY ENVIRONMENT

470 MHz AND ABOVE

ALREADY THERE! NO CHANGES NEEDED!

- 1) COMMERCIAL DC/MA PRODUCT IS UNDER DEVELOPMENT!
- 2) MULTIPLE MANUFACTURERS
- 3) BOTH SUBSCRIBER AND BASE STATION PRODUCTS



470 MHz AND BELOW

ADOPTION OF 3 ADDITIONAL PROVISIONS
WOULD FURTHER PROMIDE
IMPLEMENTATION OF DC/MATM

AND

OTHER SPECTRALLY EFFICIENT TECHNOLOGIES TO

"ALLOW MARKET FORCES TO DECIDE"



FIRST -- CHANNEL EXCLASION

WELEGO YZE YOU HAVE CHOSE PER THIS ISSUE

HOWENER

IF ENACTED, WOULD EXCUES THE TECHNOLOGIES
SUCH AS DOMESTICATION OF THE STREET OF THE S

OLE TRATEGY, WHEN IN EMENTED, CREATES

IN CHANNEL TRUNKING"



SECOND -MANDATORY DATES FOR MIGRATION

AGAIN, THIS ISSUE HAS BEEN DEFERRED 4-

ENJOYS WIDE INDUSTRY SUPPORT

BUSINESS STRATEGIES REQUIRE TIME FRAMES.



THIRD -ECONOMIC INCENTIVES

- THERE MUST BE ASSURANCE THAT CLEARED CHANNELS ARE RETAINED BY INCUMBENTS IF THEY DEPLOY TECHNOLOGIES THAT MEET F.C.C. EFFICIENCY STANDARDS BY DATES CERTAIN.
- LICENSING FEES (IF AUTHORIZED BY CONGRESS) MAY ALSO BE STRUCTURED TO ENCOURAGE TRANSITION TO MORE EFFECTIVE FREQUENCY USAGE.
- THOSE WHO DO NOT MIGRATE TO 2X OR 4X STANDARDS WITHIN SPECIFIED TIME FRAMES SHOULD BE SUBJECT TO SPECTRUM TAKE BACKS.



REFARMING UHF/VHF

F.C.C. DESERVES "HIGH MARKS PROPERTY OF THE PR

- ♦ AUTHORIZATION OF MULTI CHANNEL TRUNKED SYSTEMS AT 450-512 MHz WHICH HAVE BEEN SO SUCCESSFUL IN INCREASING TOTAL TRANSMISSION CAPACITY AT 806-894 MHz
- ◆ ESTABLISHMENT OF 1/1/2005 TYPE ACCEPTANCE DEADLINE FOR ALL NEW MODELS OF EQUIPMENT TO REQUIRE 4 TIMES CAPACITY WITHIN CURRENT 25 KHZ CHANNEL BANDWIDTH (6.25 -Vs- 25 TODAY)
- ◆ ADOPTION OF FREQUENCY ASSIGNMENT PLAN THAT UTILIZES CURRENT CENTER CHANNELS AND ALLOWS A SMOOTH TRANSITION TO MINIMIZE ADJACENT CHANNEL INTERFERENCE



DCMA™ /Refarming

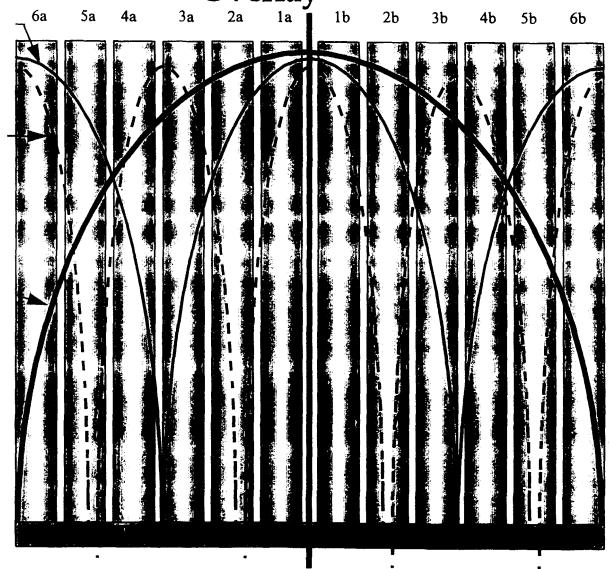
Overlay



6.25/7.50 kHz

25.0/30.0 kHz

ComSpace





SUMMARY

COMSPACETM DC/MATM TECHNOLOGY ALLEOWS ASX INCREASE PER CHANNEL

- -- PERMITS "ON CHANNEL TRUNKING" "ONE 25 kHZ CHANNEL EQUALS FIVE PLUS"
- -- TRANSITIONS PRESENT CHANNEL PLAN AND MAXIMIZES EFFICIENT SPECTRUM USE. IN PARTICULAR REFARMING INITIATIVES

MARKET FORCES WILL WORK BEST IF REFARMING INCLUDES PROVISIONS FOR:

- 1) CHANNEL EXCLUSIVITY
- 2) MANDATORY DATES FOR MIGRATION
- 3) USE OF ECONOMIC INCENTIVES

RESULT -- MAXIMUM UTILIZATION OF SCARCE SPECTRUM



ADDENDUM

COMPANY HIGHLIGHTS

- UTI FORMED IN 1993 BY STEVE FULFORD AND DAVID GEORGE, BOTH FORMER EXECUTIVES OF UNIDEN; FUNDED BY LENBROOK INDUSTRIES, CANADA.
- UWD FORMED IN 1993; SUBSIDIARY BETWEEN UTI AND WSIL (WIRELESS SYSTEMS INTERNATIONAL A SPINOUT FROM THE UNIVERSITY OF BRISTOL, BRISTOL ENGLAND)
- ◆ PATENTS FILED ON DYNAMIC CHANNEL MULTICARRIER ARCHITECTURE "DC/MA" TECHNOLOGY IN APRIL, 1995.
- ◆ FULLY FUNCTIONAL DEMONSTRATION COMPLETED IN AUGUST, 1996.
- ◆ RECEIVED \$8.5 MILLION IN 2ND ROUND FUNDING BY SEVIN ROSEN IN OCTOBER, 1997.
- ◆ BOUGHT 100% OWNERSHIP IN DC/MA TECHNOLOGY FROM WSIL AND UWD IN OCTOBER, 1997.
- ◆ CHANGED NAME TO COMSPACE™ CORP.

